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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/606,219

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Shigekazu Morikawa

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01/07/2009

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EXAMINER

JONES, HEATHER RAE

ART UNIT

PAPER NUMBER

2621

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/606,219	Applicant(s) MORIKAWA, SHIGEKAZU	
	Examiner HEATHER R. JONES	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 December 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed December 12, 2008, with respect to the rejection(s) of claim(s) 10-13 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of a newly found prior art reference.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walsh et al. (U.S. Patent 5,952,943) in view of Umeda (U.S. Patent 7,174,091).

Regarding claim 1, Walsh et al. discloses a moving image reproducing apparatus that reproduces a moving image constituted by frame-sequential compressed still images, each of the compressed still images including a plurality of encoded image components formed by encoding the compressed still image for each frequency component, comprising: a receiver (210) for frame-sequentially receiving the plurality of encoded image components (Fig. 2); a decoder for sequentially decoding, in the order of a lower frequency, the plurality of encoded image components received by the receiver (Figs. 8 and 9);

determining the decoding amount is within a specified amount of time (the amount of time it takes to receive the next frame) (Fig. 9 – memory for next frame (912) - once the decoder stores the band it knows that this frame is done and can proceed to the next frame); a controller for controlling a decoding amount in the decoding process of the encoded image components for one frame when its that the decoding process has not been completed in a specified amount of time (Fig. 10 - steps 1010-1018 – the decoding time is being controlled); and a reproducer for reproducing the moving image by the decoded still images produced (Fig. 2 – display processor (202) and monitor (204)). Walsh et al. fails to explicitly disclose a multiplexer for producing decoded still images for one frame by multiplexing with each other a plurality of decoded image components decoded by the decoder. However, Walsh et al. does disclose a display processor (202) that receives the decoded data and processes the decoded data before displaying the data. It is well known in the art that in order to display an image the decoded bands need to be processed and part of processing the decoded bands is to multiplex the decoded bands in order to form an image suitable for display. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included a multiplexer as part of the display processor in order to reconstruct the image thereby making it suitable for display. However, Walsh et al. still fails to disclose a determiner for determining whether or not a decoding process of the encoded image components for one frame is completed by said decoder when the plurality of encoded image

components equal to the compressed still images for a next frame are received by said receiver; and a controller for controlling a decoding amount in said decoding process of the encoded image components for one frame when said determiner determines that said decoding process has not been completed.

Referring to the Umeda reference, Umeda discloses a moving image reproducing apparatus that reproduces a moving image constituted by frame-sequential compressed still images, each of the compressed still images including a plurality of encoded image components formed by encoding the compressed still image for each frequency component, comprising: a determiner for determining whether or not a decoding process of the encoded image components for one frame is completed by said decoder when the plurality of encoded image components equal to the compressed still images for a next frame are received by said receiver (Fig. 6 – determining the decoding amount; Fig. 7; Fig. 11 - changing the quality of the decoder based on the determined decoding amount); a controller for controlling a decoding amount in said decoding process of the encoded image components for one frame when said determiner determines that said decoding process has not been completed (Fig. 7; Fig. 11 - changing the quality of the decoder based on the determined decoding amount).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have changed the decoding rate based upon the time it takes to decode an image as disclosed by Umeda in the reproducing

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apparatus disclosed by Walsh et al. in order to improve the time of reproduction so that there is no lag in the video and to avoid skipping frames to avoid distorted images.

Regarding claim **11**, Walsh et al. in view of Umeda discloses all the limitations as previously discussed with respect to claim 10 including that the apparatus further comprises a mode setter for selectively reproducing the plurality of encoded image components received by said receiver in a high image quality mode or a low image quality mode, wherein said determiner determines whether or not the decoding process in said high image quality mode is completed, and said controller controls said decoding amount by causing said mode setter to set said low image quality mode (Walsh et al.: Fig. 10 - steps 1010-1018; col. 9, line 60 - col. 10, line 18 – the high and low image quality is set according to whether or not the decoding time for the frame is acceptable; Umeda: Fig. 7; Fig. 11 - changing the quality of the decoder based on the determined decoding amount).

Regarding claims **12** and **13**, these are method claims corresponding to the apparatus claims 10 and 11. Therefore, claims 12 and 13 are analyzed and rejected as previously discussed with respect to claims 10 and 11.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HEATHER R. JONES whose telephone number is

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(571)272-7368. The examiner can normally be reached on Mon. - Thurs: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heather R Jones
Examiner
Art Unit 2621

HRJ
January 3, 2009

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621